



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Data Warehouse Export System

(BDW)

Technical Manual

Version 1.0 Patch 12
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Office of Information Technology
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Revision History

Version	Date	Notes
1.0	January 2006	Initial version
1.0	March 2019	Updated with p6
1.0	May 2020	Updated with p7
1.0	August 2025	Updated with p12

Preface

This manual contains the technical guide for the Resource and Patient Management System (RPMS) Data Warehouse Export System (BDW).

The Data Warehouse Export System is an RPMS software application designed for local export of registration and visit data to the Indian Health Service (IHS) National Data Warehouse (NDW).

In 2019 (p6), a separate export was created to send prescription data to a reporting system at the Data Warehouse. Use of the standardized RPMS BDW data warehouse export will assist local sites with extracting data to create an opioid surveillance strategy to monitor local opioid prescribing and leverage utilization of timely, actionable data to inform strategies and interventions. This data will also support opioid stewardship efforts and multi-disciplinary, collaborative approaches to improve outcomes for patients with chronic pain or opioid use disorder diagnoses. This data export will also enable analysis of the effectiveness of harm reduction strategies.

In 2020 (p7), a separate export was created to send Coronavirus Disease 2019 (COVID-19) related testing and hospital bed usage data to a reporting system at the Data Warehouse.

In 2025 (p12), the transmission of files to the National Patient Information Reporting System (NPIRS) was changed from using sendTo to using BCOM.

The National Patient Information Reporting System (NPIRS) is a designated organizational unit within the Information Technology Support Center, Division of Information Resources, Indian Health Service, located in Albuquerque, New Mexico, and has been in existence since 1986. The purpose of NPIRS is to provide a broad range of clinical and administrative information to managers at all levels of the Indian health system to allow them to better manage individual patients, local facilities, regional and national programs and to allow IHS Management to provide legislatively required reports to the Administration and Congress. The NDW project was initiated to upgrade NPIRS to a new, state-of-the-art, enterprise-wide data warehouse environment, to better serve the needs of its users.

This application will allow local RPMS systems to export data to NPIRS' new NDW structure. The data to be exported includes the following:

- demographic data;
- third-party eligibility information;
- patient-based clinical data (e.g., health factors); and

- encounter-based clinical data (e.g., purpose of visit, procedures, medications, laboratory test results, radiological results).

This export will provide for the export of modifications in these data so that the NDW will be able to maintain historical records of changes in these data so information about past as well as current circumstances can be retrieved.

Additionally, prescription data can optionally be included in a separate export, so that the NDW can maintain a separate database of prescriptions to support the various opioid initiatives.

The data is exported via HL7 (Health Level Seven) standard messages. For each registration, visit record and/or prescription record that is exported an HL7 message is generated and sent to the NDW.

1.0 Implementation and Maintenance

The Data Warehouse Export System occupies the BDW namespace. Options, security locks and keys, templates, routines, and globals are namespaced BDW.

1.1 System Requirements

- Kernel v8.0 p1018 (XU*8.0*1018) or later.
- FileMan v22.0 p1018 (DI*22.0*1018) or later.
- BDW v1.0 p11 (bdw*1.0*11) bdw_0100.11k)
- IHS Communications Support v1.0 (BCOM*1.0)

1.2 Security Keys

Table 1-1 lists the BDW security keys with descriptive names and descriptions.

Table 1-1: BDW security keys

Name	Descriptive Name	Description
BDWZ BACKLOAD MENU	BDW BACKLOAD MENU	This key unlocks the backload menu of the data warehouse software. This key should only be given to the person doing the initial backloading of data to the DW.
BDWZ REG EXPORT	BDW REGISTRATION EXPORT	This key unlocks the option to do a full registration export to the Data Warehouse. This key should only be given to the user doing that initial registration backload.
BDWZMENU	BDW MAIN MENU	This key unlocks the main Data Warehouse menu. It should be assigned to all users who need to run Data Warehouse exports.
BDWZ RESET	BDW RESET LOG	This key unlocks the reset option for the Data Warehouse exports. It should be given to the site manager and area office personnel only.
BDWHZ RESET	BDWH RESET LOG	This key unlocks the reset option for the Prescription export. It should be given to the site manager and area office personnel only.
BDWHZMENU	BDWH MAIN MENU	This key unlocks the main menu for the Prescription export.
BDWCZMENU	BDWC MAIN MENU	This key unlocks the main menu for the COVID-19 export.
BDWCZ RESET	BDWC RESET LOG	This key unlocks the reset option for the COVID-19 export. It should be given to the site manager and area office personnel only.

1.3 Transmitting Data using BCOM

At a site determined interval the site will export three files of transactions to the National Data Warehouse, maintained by the National Patient Information Reporting System (NPIRS):

- BDW–Registration and PCC Visit data
- BDWH–Prescription data
- BDWC–COVID data

These three exports generate files that are placed in the site's export directory. Once the files have been created a process called BCOM is used to securely transfer these files to NPIRS.

The BCOM package is a system to securely transmit files via SecureFTP to a remote computer and verify that the data in the files have not been modified during transit, utilizing an SHA-256 or better hashing algorithm.

During the installation process of BDW v1.0 p12, a BCOM process will be set up to transmit the three types of export files to the National Data Warehouse (NDW) maintained by the National Patient Information Reporting System (NPIRS) Team. Previously this was transmitted via the SendTo process. The two new processes are GetBDW and SendBDW.

To view these processes, sign on to the Management Portal to view the new BDW processes. Look to the right and see that the BCOM namespace is **Running**.

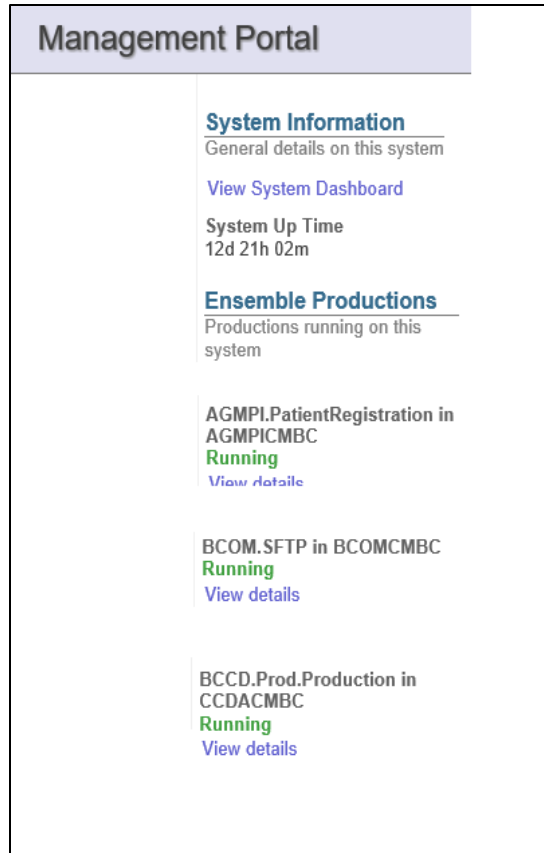


Figure 1-1: Management Portal example

BCOM Connection Settings—These are located under Interoperability in IRIS, the Service is GetBDW, this contains the file path and file mask for which BDW files are picked up to be sent to the operation SendBDW. SendBDW has the server information and credentials. Credentials are encrypted although you can see the username.

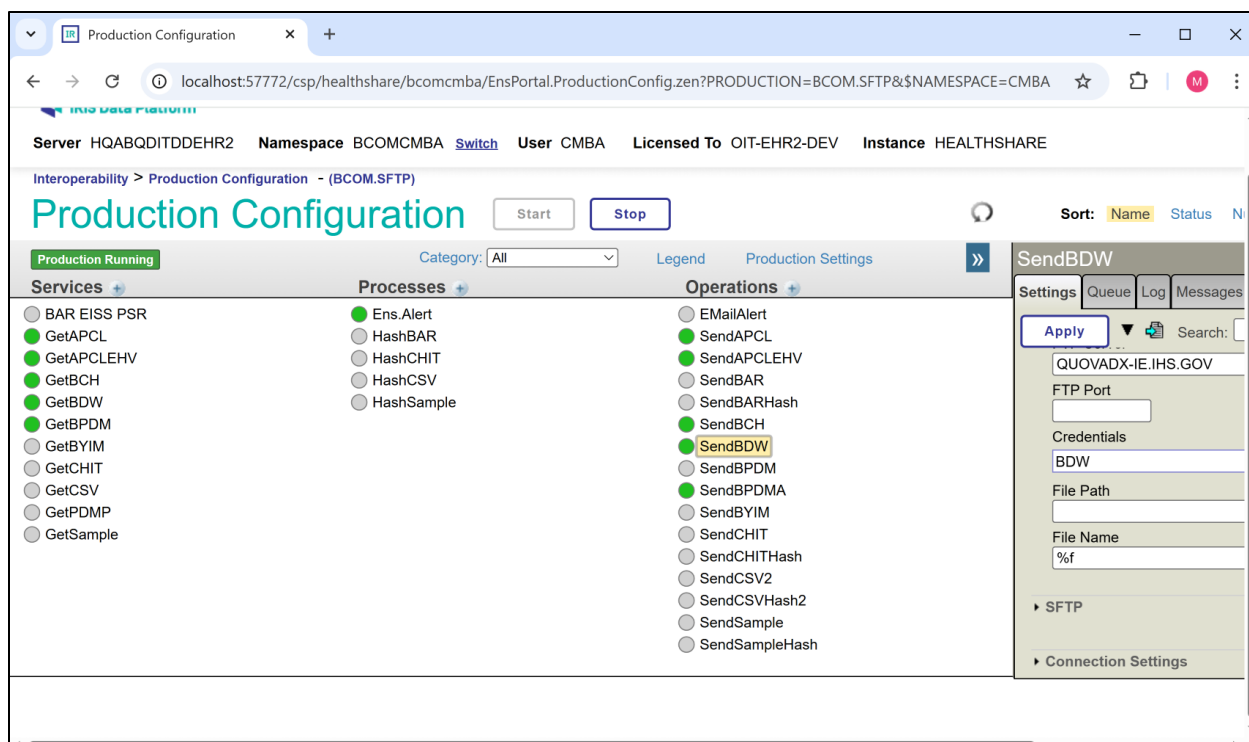


Figure 1-2: Production Configuration

2.0 Routines

Table 2-1 lists BDW routines and descriptions.

Table 2-1: BDW routines

Routine	Description
BDW10P1	IHS/CMI/LAB—PRE/POST INIT
BDW10P10	ihs/cmi/maw—BDW p10
BDW10P11	ihs/cmi/maw—BDW p11
BDW10P12	ihs/cmi/maw—BDW p12
BDW10P3	IHS/CMI/MAW—BDW p3 Post Init
BDW10P4	ihs/cmi/maw—BDW p5
BDW10P40	ihs/cmi/maw—BDW p4
BDW10P5	ihs/cmi/maw—BDW p5
BDW10P6	ihs/cmi/maw—BDW p6
BDW10P7	ihs/cmi/maw—BDW p7
BDW10P8	ihs/cmi/maw—BDW p8
BDW10P9	ihs/cmi/maw—BDW p8
BDW1BLR	IHS/CMI/LAB—DW EXPORT REG DATA BACKLOAD VIA HL7
BDW1VBL	IHS/CMI/LAB—MAIN DRIVER DW VISIT BACKLOAD
BDW1VBL2	IHS/CMI/LAB—DW process visit during backload
BDW1VBLE	IHS/CMI/LAB—log error during backload of visits
BDW1VBLI	IHS/CMI/LAB—Initialization for DW Visit backloading
BDW1VBLL	IHS/CMI/LAB—Display log of dw visit backload
BDW1VBLR	IHS/CMI/LAB—RESET visit backload log
BDW1VBLZ	IHS/CMI/LAB—rerun visit backload log
BDWA	IHS/CMI/LAB—dw export reg data—old version
BDWA0	IHS/CMI/LAB—DW EXPORT—OLD, NOT USED
BDWA1	IHS/CMI/LAB—DW EXPORT—OLD, NOT USED
BDWAID	IHS/CMI/LAB—UNIQUE REGISTRATION RECORD ID
BDWALPMR	IHS/CMI/LAB—BDW Populate Various DW1 HL7
BDWBAN	IHS/CMI/LAB—BANNER FOR DATA WAREHOUSE
BDWBCOMS	ihs/cmi/maw—Setup BCOM Production for BDW
BDWBHL	IHS/CMI/LAB—BDW Populate Various DW1 HL7
BDWBHL1	IHS/CMI/LAB—BDW Populate Various DW1 HL7 Segments
BDWCVAR	IHS/CMI/LAB—visit audit report
BDWCBHL	ihs/cmi/maw—BDW COVID BHL DRIVER

Routine	Description
BDWCOHL	ihs/cmi/maw—BDW COVID HL7 Utilities
BDWCOV1	IHS/CMI/LAB—DW PROCESS VISIT
BDWCOVAD	ihs/cmi/maw—BDW COVID ADT Data BDWCOVBN
BDWCOVBN	IHS/CMI/LAB—BANNER FOR DATA WAREHOUSE
BDWCOVD	IHS/CMI/LAB—MAIN DRIVER DW EXPORT
BDWCOVD1	IHS/CMI/LAB—INIT FOR DW
BDWCOVDR	IHS/CMI/LAB—Main Driver COVID EXPORT DATE RANGE
BDWCOVLG	IHS/CMI/LAB—DISPLAY DW EXPORT LOG DATA
BDWCOVRD	IHS/CMI/LAB—REDO A COVID RUN
BDWCOVRL	IHS/CMI/LAB—RESET TX LOG
BDWCOVT	IHS/CMI/LAB—visit audit report
BDWDDR	IHS/CMI/LAB—Main Driver EXPORT DATE RANGE
BDWDDR2	IHS/CMI/LAB—reexport in date range
BDWDLOG	IHS/CMI/LAB—DISPLAY DW EXPORT LOG DATA AUGUST 14, 1992
BDWDWPX	IHS/CMI/LAB—RPMS report for DW export
BDWDWPX1	IHS/CMI/LAB—RPMS report for DW export-3/12/2004 12:46:58 PM
BDWEPRN	IHS/CMI/LAB—Display TX ERRORS AUGUST 14, 1992
BDWHBAN	IHS/CMI/LAB—BANNER FOR DATA WAREHOUSE
BDWHBHL	ihs/cmi/maw—BDW HOPE BHL DRIVER
BDWHBHL1	IHS/CMI/LAB—BDWH Driver Cont
BDWHDDR	IHS/CMI/LAB—Main Driver EXPORT DATE RANGE
BDWHDLOG	IHS/CMI/LAB—DISPLAY DW EXPORT LOG DATA AUGUST 14, 1992
BDWHDR	IHS/CMI/LAB—HOPE DATA WAREHOUSE
BDWHEVNT	ihs/cmi/maw—BDWH HL7 Event Driver
BDWHFLDS	ihs/cmi/maw—BDW HOPE Fields
BDWHRDI2	IHS/CMI/LAB—INIT FOR DW EXPORT
BDWHRDR	IHS/CMI/LAB—MAIN DRIVER DW EXPORT
BDWHRDRA	IHS/CMI/LAB—MAIN DRIVER DW EXPORT
BDWHRDRI	IHS/CMI/LAB—INIT FOR DW
BDWHREDO	IHS/CMI/LAB—REDO A RUN
BDWHRSET	IHS/CMI/LAB—RESET TX LOG AUGUST 14, 1992
BDWHUTL	IHS/CMI/LAB—DW UTILITIES
BDWIN1	IHS/CMI/LAB—BDW Create Insurance Array for GIS DW1 Export
BDWMSH	cmi/anchorage/maw—BHL IHS MSH Supplement
BDWNTEG	ISC/XTSUMBLD KERNEL—Package checksum checker
BDWPRADD	IHS/CMI/LAB—SET PATIENT AS AN ADD

Routine	Description
BDWPRE	IHS/CMI/LAB—PRE/POST INIT
BDWPURG	IHS/CMI/LAB—PURGE DW LOG
BDWQ	IHS/CMI/LAB—BDW Place Holder for Destinations
BDWRDR	IHS/CMI/LAB—MAIN DRIVER DW EXPORT
BDWRDR2	IHS/CMI/LAB—DW PROCESS VISIT
BDWRDR21	IHS/CMI/LAB—CONT PROCESS
BDWRDRI	IHS/CMI/LAB—INIT FOR DW
BDWRDRI2	IHS/CMI/LAB—INIT FOR DW EXPORT
BDWRDRI3	IHS/CMI/LAB—INIT CONT DW
BDWRED1	IHS/CMI/LAB—REDO CONT
BDWREDO	IHS/CMI/LAB—REDO A RUN
BDWRERR	IHS/CMI/LAB—LOG ERROR
BDWRSET	IHS/CMI/LAB—RESET TX LOG AUGUST 14, 1992
BDWRXP	cmi/anch/maw—BDW Mark Visit for Export that didn't export already
BDWSR	IHS/CMI/LAB—DW REPORT
BDWSR1	IHS/CMI/LAB—DW REPORT 1
BDWSR2	IHS/CMI/LAB—DW REPORT 2
BDWSRP	IHS/CMI/LAB—DW REPORT PRINT
BDWSRP5	IHS/CMI/LAB—DW REPORT PRINT CONT
BDWUTIL	IHS/CMI/LAB—DW UTILITIES
BDWUTIL1	IHS/CMI/LAB—Data Warehouse Utilities
BDWUTIL2	IHS/CMI/LAB—Data Warehouse Utilities

3.0 Files and Tables

3.1 File List

Table 3-1: BDW file list

File	Global	Name
90212.1	^BDWSITE	BDW SITE FILE
90212.2	^BDWERRC	BDW ERROR CODES
90212.3	^BDWVARD	BDW VISIT AUDIT RECORD DEFINITION
90213.3	^BDWBCOM	BDW BCOM
90213	^BDWXLOG	BDW DATA WAREHOUSE EXPORT LOG
90213.1	^BDWHLOG	BDW PRESCRIPTION EXPORT LOG
90213.2	^BDWCVLOG	BDW COVID EXPORT LOG
90214	^BDWBLOG	BDW VISIT BACKLOAD FILE
90215	^BDWRBLOG	BDW REG BACKLOAD LOG

3.2 File Access

Table 3-2: BDW file access list

File (#)	Global	RD	WR	LYG	DD	DEL
90212.1	^BDWSITE	M	M	M	@	@
90212.2	^BDWERRC	M	@	@	@	@
90212.3	^BDWVARD	@	@	@	@	@
90212.4	^BDWBCOM	@	@	@	@	@
90213	^BDWXLOG	M	M	M	@	@
90213.1	^BDWHLOG	M	M	M	@	@
90213.2	^BDWCVLOG	M	M	M	@	@
90214	^BDWBLOG	M	M	M	@	@
90215	^BDWRBLOG	M	M	M	@	@

3.3 Cross References

File #90212.1

B REGULAR

Field: NAME (90212.1,.01)

1)= S ^BDWSITE("B",\$(X,1,30),DA)=""

2)= K ^BDWSITE("B",\$(X,1,30),DA)

File #90212.2

B REGULAR

Field: ERROR CODE (90212.2,.01)

1)= S ^BDWERRC("B",\$E(X,1,30),DA)=""

2)= K ^BDWERRC("B",\$E(X,1,30),DA)

File #90212.3

B REGULAR

Field: RECORD ID (90212.3,.01)

1)= S ^BDWVARD("B",\$E(X,1,30),DA)=""

2)= K ^BDWVARD("B",\$E(X,1,30),DA)

Subfile #90212.311

B REGULAR

Field: PIECE (90212.311,.01)

1)= S ^BDWVARD(DA(1),11,"B",\$E(X,1,30),DA)=""

2)= K ^BDWVARD(DA(1),11,"B",\$E(X,1,30),DA)

File #90212.4

Traditional Cross-References:

B REGULAR

Field: AREA (90212.4,.01)

1)= S ^BDWBCOM("B",\$E(X,1,30),DA)=""

2)= K ^BDWBCOM("B",\$E(X,1,30),DA)

File #90213

B REGULAR

Field: BEGINNING DATE (90213,.01)

1)= S ^BDWXLOG("B",\$E(X,1,30),DA)=""

2)= K ^BDWXLOG("B",\$E(X,1,30),DA)

Subfile #90213.05101

B REGULAR

Field: VISIT (90213.05101,.01)

1)= S ^BDWXLOG(DA(1),51,"B",\$E(X,1,30),DA)=""

2)= K ^BDWXLOG(DA(1),51,"B",\$E(X,1,30),DA)

Subfile #90213.06101

B REGULAR

Field: PATIENT CENTRIC EXPORTED (90213.06101,.01)

1)= S ^BDWXLOG(DA(1),61,"B",\$E(X,1,30),DA)=""

2)= K ^BDWXLOG(DA(1),61,"B",\$E(X,1,30),DA)

File #90213.1

AF REGULAR

Field: BEGINNING FILL DATE (90213.1,.02)

1)= S ^BDWHLOG("AF",\$E(X,1,30),DA)=""

2)= K ^BDWHLOG("AF",\$E(X,1,30),DA)

B REGULAR

Field: ORIGINAL RUN DATE (90213.1,.01)

1)= S ^BDWHLOG("B",\$E(X,1,30),DA)=""

2)= K ^BDWHLOG("B",\$E(X,1,30),DA)

Subfile #90213.12101

AEXP MUMPS WHOLE FILE (#90213.1)

Field: FILLS EXPORTED (90213.12101,.01)

1)= I \$P(^BDWHLOG(DA(1),21,DA,0),U,7)=1 S ^BDWHLOG("AEXP",X
,\$P(^BDWHLOG(DA(1),21,DA,0),U,3),DA(1),DA)=""2)= K ^BDWHLOG("AEXP",X,\$P(^BDWHLOG(DA(1),21,DA,0),U,3),DA
(1),DA)

AFILL REGULAR WHOLE FILE (#90213.1)

Field: FILL DATE (90213.12101,.04)

1)= S ^BDWHLOG("AFILL",\$E(X,1,30),DA(1),DA)=""

2)= K ^BDWHLOG("AFILL",\$E(X,1,30),DA(1),DA)

B REGULAR

Field: FILLS EXPORTED (90213.12101,.01)

1)= S ^BDWHLOG(DA(1),21,"B",\$E(X,1,30),DA)=""

2)= K ^BDWHLOG(DA(1),21,"B",\$E(X,1,30),DA)

Subfile #90213.131**B REGULAR**

Field: AUDIT (90213.131,.01)

1)= S ^BDWHLOG(DA(1),31,"B",\$E(X,1,30),DA)=""

2)= K ^BDWHLOG(DA(1),31,"B",\$E(X,1,30),DA)

Subfile #90213.141

ABLFILL REGULAR WHOLE FILE (#90213.1)

Field: FILL DATE (90213.141,.04)

1)= S ^BDWHLOG("ABLFILL",\$E(X,1,30),DA(1),DA)=""

2)= K ^BDWHLOG("ABLFILL",\$E(X,1,30),DA(1),DA)

B REGULAR

Field: BACKLOAD PRESCRIPTIONS (90213.141,.01)

1)= S ^BDWHLOG(DA(1),41,"B",\$E(X,1,30),DA)=""

2)= K ^BDWHLOG(DA(1),41,"B",\$E(X,1,30),DA)

Subfile #90213.15101

Traditional Cross-References:

B REGULAR

Field: OUTSIDE MEDICATIONS EXPORTED (90213.15101,.01)

1)= S ^BDWHLOG(DA(1),51,"B",\$E(X,1,30),DA)=""

2)= K ^BDWHLOG(DA(1),51,"B",\$E(X,1,30),DA)

Subfile #90213.16101

Traditional Cross-References:

B REGULAR

Field: OUTSIDE MEDS IN BACKLOAD (90213.16101,.01)

1)= S ^BDWHLOG(DA(1),61,"B",\$E(X,1,30),DA)=""

2)= K ^BDWHLOG(DA(1),61,"B",\$E(X,1,30),DA)

File #90213.2

B REGULAR

Field: ORIGINAL RUN DATE (90213.2,.01)

1)= S ^BDWCVLOG("B",\$E(X,1,30),DA)=""

2)= K ^BDWCVLOG("B",\$E(X,1,30),DA)

Subfile #90213.211

Traditional Cross-References:

B REGULAR

Field: DATE OF DATA (90213.211,.01)

1)= S ^BDWCVLOG(DA(1),11,"B",\$E(X,1,30),DA)=""

2)= K ^BDWCVLOG(DA(1),11,"B",\$E(X,1,30),DA)

Subfile #90213.21111

B REGULAR

Field: FACILITY DATA (90213.21111,.01)

1)= S ^BDWCVLOG(DA(2),11,DA(1),11,"B",\$E(X,1,30),DA)=""

2)= K ^BDWCVLOG(DA(2),11,DA(1),11,"B",\$E(X,1,30),DA)

File #90214

B REGULAR

Field: BEGINNING DATE (90214,.01)

1)= S ^BDWBLOG("B",\$E(X,1,30),DA)=""

2)= K ^BDWBLOG("B",\$E(X,1,30),DA)

Subfile #90214.05101

B REGULAR

Field: VISITS SKIPPED (90214.05101,.01)

1)= S ^BDWBLOG(DA(1),51,"B",\$E(X,1,30),DA)=""

2)= K ^BDWBLOG(DA(1),51,"B",\$E(X,1,30),DA)

File #90215

B REGULAR

Field: EXPORT DATE (90215,.01)

1)= S ^BDWRBLOG("B",\$E(X,1,30),DA)=""

2)= K ^BDWRBLOG("B",\$E(X,1,30),DA)

3.4 Table File

Table 3-3: FILE #: 90212.1 BDW SITE FILE GLOBAL: ^BDWSITE(

Field #	Field Name	Subscript	Piece	Type
.001	NUMBER	N/A	N/A	N
.01	NAME	D0,0	1	P
.02	SOFTWARE INSTALLED DATE	"	2	D
.03	*DELAY	"	3	N
.04	DATE COMPLETE REG EXPORT DONE	"	4	D
.05	NUMBER OF VISITS TO BACKLOAD	"	5	N
.06	DATE VISIT BACKLOAD COMPLETED	"	6	D
.07	SEND VISIT AUDIT REPORT?	"	7	S
1101	TURN OFF ADDED PATCH 6 DATA?	D0,11	1	S
1201	HFS DIRECTORY	D0,12	1	F
2100	ENABLE PRESCRIPTION EXPORT	21	N/A	N/A
2100 .01	PHARMACY OUTPATIENT SITE	21	1	P
2100 .02	ENABLE HOPE EXPORT	21	2	S
2100 .03	DATE BACKLOAD COMPLETED	21	3	D
3301	ORYX/GPRA	33	N/A	N/A
3301.01	ORYX/GPRA	33	1	F
3301.02	DO NOT SEND?	33	2	S

Table 3-4: FILE #: 90212.2 BDW ERROR CODES GLOBAL: ^BDWERRC(

Field #	Field Name	Subscript	Piece	Type
.01	ERROR CODE	D0,0	1	F
.02	DESCRIPTION	"	2	F
1	LONG DESCRIPTION	(90212.21)	N/A	N/A
.01	LONG DESCRIPTION	D0,1,D1,0	1	W

Table 3-5: FILE #: 90212.3 BDW VISIT AUDIT RECORD DEFINITION GLOBAL:
^BDWVARD(

Field #	Field Name	Subscript	Piece	Type
.01	RECORD ID	D0,0	1	F
1101	ELEMENTS (90212.311)	N/A	N/A	N/A
.01	PIECE	D0,11,D1,0	1	N
.02	ELEMENT	"	2	F
1	GET VALUE	D0,11,D1,1	N/A	K

Table 3-6: FILE #: 90212.4 BDW BCOM GLOBAL: ^BDWBCOM(

Field #	Field Name	Subscript	Piece	Type
.01	AREA	D0,0	1	P
.02	USER	D0,0	2	F
.03	CRED	D0,0	3	F
.04	URL	D0,0	4	F
.05	FILE PATH	D0,0	5	F

Table 3-7: FILE #: 90213 BDW DATA WAREHOUSE EXPORT LOG GLOBAL: ^BDWXLOG(

Field #	Field Name	Subscript	Piece	Type
.001	NUMBER	N/A	N/A	N
.01	BEGINNING DATE	D0,0	1	D
.02	ENDING DATE	"	2	D
.03	RUN START DATE/TIME	"	3	D
.04	RUN STOP DATE/TIME	"	4	D
.05	COUNT OF VISITS SKIPPED (ALL)	"	5	N
.06	COUNT OF TXS (REG+PCC)	"	6	N
.07	EXPORT TYPE	"	7	S
.08	COUNT OF VISITS PROCESSED	"	N/A	N/A
.09	RUN LOCATION	"	9	P
.11	# REG MESSAGES	"	11	N
.12	MESSAGE HEADER	"	12	F
.13	RUN TIME	"	13	F
.14	TRAILER MESSAGE #	"	14	F
.15	TRANSMISSION STATUS	"	15	S
.16	PROCESSING ERROR ENCOUNTERED	"	16	P
.18	NUMBER OF VISITS EXPORTED	"	18	N

Field #	Field Name	Subscript	Piece	Type
.19	NUMBER OF PC EXPORTED	"	19	N
.21	AUDIT FILE	"	21	F
.22	REDO?"	"	22	S
.23	HEADER RECORD EXPORT TYPE	"	23	F
.24	PRODUCTION/TEST	"	24	S
2101	VISITS (90213.2101)	N/A	N/A	N/A
.01	VISIT	D0,21,D1,0	1	P
.02	TX GEN'D	"	2	S
.03	MESSAGE #	"	3	F
3101	DEMO PATIENT RECORDS	D0,31	1	N
3102	ZERO DEPENDENT ENTRIES	"	2	N
3103	DELETED VISITS NEVER SENT	"	3	N
3104	NO PATIENT	"	4	N
3105	NO LOCATION OF ENC	"	5	N
3106	NO TYPE OF VISIT	"	6	N
3107	NO SERVICE CATEGORY	"	7	N
3108	ADDS	"	8	N
3109	MODS	"	9	N
3110	DELETES	"	10	N
3111	MFI VISITS SKIPPED	"	11	N
4101	PATIENTS EXPORTED (90213.4101)	N/A	N/A	N/A
.01	PATIENTS EXPORTED	D0,41,D1,0	1	P
.02	BASE RECORD	"	2	D
.03	DEMO RECORD	"	3	D
.04	ALIAS	"	4	D
.05	CHART	"	5	D
.06	ELIG	"	6	D
.07	MESSAGE #	"	7	F
.08	ZRB FLAG	"	8	F
.09	ZRL FLAG	"	9	F
.1	ZRC FLAG	"	10	F
.11	ZRD FLAG	"	11	F
.12	ZRN FLAG	"	12	F
5101	VISITS WITH ERRORS (90213.05101)	N/A	N/A	N/A
.01	VISIT	D0,51,D1,0	1	P
.03	MSG	"	3	F

Field #	Field Name	Subscript	Piece	Type
6101 PATIENT CENTRIC EXPORTED	PATIENT CENTRIC EXPORTED	D0,61,D1,0	N/A	N/A
.01	PATIENT CENTRIC EXPORTED	"	1	P
.02	MESSAGE #	"	2	F
8801	USER	D0,100	1	P
9901	TRAILER REPORT (90213.99)	N/A	N/A	N/A
.01	TRAILER REPORT	D0,99,D1,0	1	W

Table 3-8: FILE #: 90213.1 BDW PRESCRIPTION EXPORT LOG GLOBAL: ^BDWHLOG(

Field #	Field Name	Subscript	Piece	Type
.001	NUMBER	N/A	N/A	N
.01	ORIGINAL RUN DATE	D0,0	1	D
.02	BEGINNING FILL DATE	"	2	D
.03	ENDING FILL DATE	"	3	D
.04	RUN STOP DATE/TIME	"	4	D
.05	COUNT OF FILLS PROCESSED	"	5	N
.06	COUNT OF FILLS SKIPPED	"	6	N
.07	EXPORT TYPE	"	7	S
.08	COUNT OF FILLS EXPORTED	"	N/A	N/A
.09	RUN LOCATION	"	9	P
.1	RUN START DATE&TIME	"	10	D
.11	MESSAGE HEADER	"	11	F
.12	TRAILER MESSAGE #	"	12	F
.13	RUN TIME	"	13	F
.15	TRANSMISSION STATUS	"	15	S
.16	PROCESSING ERROR	"	16	P
.18	NUMBER OF VISITS EXPORTED	"	18	N
.22	REDO?"	"	22	S
.23	HEADER RECORD EXPORT TYPE	"	23	F
1101	FILENAME CREATED	D0,11	1	F
1102	BACKLOAD BEGIN DATE	"	2	F
1103	BACKLOAD END DATE	"	3	F
1104	BACKLOAD # EXPORTED	"	4	F
1105	TOTAL # HL7 MESSAGES	"	5	F
1106	# OUTSIDE MEDS EXPORTED	"	6	F

Field #	Field Name	Subscript	Piece	Type
1107	# OM BACKLOADED	"	7	F
1108	PRODUCTION/TEST	"	8	F
2101	FILLS PROCESSED (90213.12101)	N/A	N/A	N/A
.01	FILLS EXPORTED	D0,21,D1,0	1	P
.02	PRESCRIPTION #	"	2	F
.03	REFILL #	"	3	N
.04	FILL DATE	"	4	D
.05	OUTPATIENT SITE	"	5	P
.06	MESSAGE #	"	6	F
.07	EXPORTED?	"	7	S
.08	REASON NOT EXPORTED	"	8	F
3101	AUDIT (90213.131)	N/A	N/A	N/A
.01	AUDIT	D0,31,D1,0	1	D
.02	USER	"	2	P
.03	OPTION NAME	"	3	P
.04	STATUS	"	5	F
4101	BACKLOAD FILLS EXPORTED (90213.14101)	N/A	N/A	N/A
.01	BACKLOAD PRESCRIPTIONS	D0,41,D1,0	1	P
.02	PRESCRIPTION #	"	2	F
.03	REFILL #	"	3	N
.04	FILL DATE	"	4	D
.05	OUTPATIENT SITE	"	5	P
.06	MESSAGE NUMBER	"	6	F
.09	VISIT IEN	"	9	F
8801	USER	D0,100	1	P

Table 3-9: FILE #: 90213.2 BDW COVID EXPORT LOG GLOBAL: ^BDWCVLOG(

Field #	Field Name	Subscript	Piece	Type
.001	NUMBER	N/A	N/A	N
.01	RUN DATE/TIME	D0,0	1	D
.02	RUN LOCATION	"	2	P
.03	RUN START DATE/TIME	"	3	D
.04	RUN STOP DATE/TIME	"	4	D
.05	FILENAME CREATED	"	5	F
.06	N/A	"	6	N

Field #	Field Name	Subscript	Piece	Type
.07	EXPORT TYPE	"	7	S
.08	BEGIN DATE DATA	"	8	D
.09	END DATE DATA	"	9	D
.1	TRANSMISSION STATUS	"	10	S
.11	MESSAGE HEADER	"	11	F
.12	TRAILER MESSAGE #	"	12	F
.13	RUN TIME	"	13	F
.14	PRODUCTION/TEST	"	14	S
1100	EXPORTED DATA BY DATE	N/A	N/A	N/A
.01	DATE OF DATA	D0,11,D1,0	1	D
1100	FACILITY	D0,11,D1,11,0	N/A	N/A
.01	FACILITY	D0,11,D1,11,D2,0	1	P
.02	LOCATION	"	2	P
.03	#TESTS DONE	"	3	N
.04	# POSITIVE TEST RESULTS	"	4	N
.05	# NEGATIVE TEST RESULTS	"	5	N
.06	# INDETERMINATE TEST RESULTS	"	6	N
.07	# TESTS IN PROGRESS	"	7	N
.08	CUMULATIVE # TESTS DONE	"	8	N
.09	CUMULATIVE # OF POSITIVE TESTS	"	9	N
.1	CUMULATIVE # OF NEGATIVE TESTS	"	10	N
.11	CUMULATIVE # OF INDETERMINATE TESTS	"	11	N
.12	CUMULATIVE # OF TESTS IN PROGRESS	"	12	N
.13	TOTAL HOSPITAL BEDS	"	13	N
.14	TOTAL OCCUPIED BEDS	"	14	N
.15	TOTAL OPEN BEDS	"	15	N
.16	TOTAL ICU BEDS	"	16	N
.17	TOTAL OCCUPIED ICU BEDS	"	17	N
.18	TOTAL OPEN ICU BEDS	"	18	N
.19	COVID PATIENTS IN HOSP BEDS	"	19	N
.2	COVID PATIENTS IN ICU BEDS	"	20	N
.21	# DISCHARGED HOME	"	21	N

Field #	Field Name	Subscript	Piece	Type
.22	NUMBER TRANSFERRED	"	22	N
.23	# COVID DEATHS	"	23	N
.24	# ABBOTT TESTS DONE	"	24	N
.25	# ABBOTT TESTS RESULTED	"	25	N
.26	# ABBOTT POSITIVE TESTS	"	26	N
.27	ABBOTT CUMULATIVE TESTS DONE	"	27	N
.28	ABBOTT CUMULATIVE RESULTED	"	28	N
.29	ABBOTT CUMULATIVE POSITIVES	"	29	N
2100	HL7 MESSAGE	D0,21	1	W

Table 3-10: FILE #: 90214 BDW VISIT BACKLOAD FILE GLOBAL: ^BDWBLOG(

Field #	Field Name	Subscript	Piece	Type
.001	NUMBER	N/A	N/A	N
.01	BEGINNING DATE	D0,0	1	D
.02	ENDING DATE	"	2	D
.03	RUN START DATE/TIME	"	3	D
.04	RUN STOP DATE/TIME	"	4	D
.05	COUNT OF VISITS SKIPPED	"	5	N
.06	COUNT OF TXS	"	6	N
.08	COUNT OF VISITS PROCESSED	"	8	N
.09	RUN LOCATION	"	9	P
.12	MESSAGE HEADER	"	12	F
.13	RUN TIME	"	13	F
.14	MESSAGE TRAILER	"	14	F
.15	TRANSMISSION STATUS	"	15	S
.16	PROCESSING ERROR ENCOUNTERED	"	16	P
.18	NUMBER OF VISITS EXPORTED	"	18	N
.19	LAST VISIT EXPORTED	"	19	N
.21	AUDIT FILE	"	21	F
3101	DEMO PATIENT RECORDS	D0,31	1	N
3102	ZERO DEP ENTRIES	"	2	N
3103	DELETED VISITS NEVER SENT	"	3	N
3104	NO PATIENT	"	4	N

Field #	Field Name	Subscript	Piece	Type
3105	NO LOCATION OF ENC	"	5	N
3106	NO TYPE OF VISIT	"	6	N
3107	NO SERVICE CATEGORY	"	7	N
3108	MFI VISITS SKIPPED	"	8	N
5101	VISITS SKIPPED (90214.05101)	N/A	N/A	N/A
.01	VISITS SKIPPED	D0,51,D1,0	1	P
.03	MESSAGE	"	3	F

Table 3-11: FILE #: 90215 BDW REG BACKLOAD LOG GLOBAL: ^BDWRBLOG(

Field #	Field Name	Subscript	Piece	Type
.01	EXPORT DATE	D0,0	1	D
.02	END TIME	"	2	D
.029	ELAPSED TIME	COMPUTED	N/A	N/A
.03	PATIENTS PROCESSED	D0,0	3	N
.04	PERFORMED BY	"	4	P
.05	HL7 MESSAGES GENERATED	N/A	5	N
.06	SITE WHERE RUN	"	6	P
.07	HEADER MESSAGE NUMBER	N/A	7	N
.08	TRAILER MESSAGE NUMBER	N/A	8	N

4.0 Archiving and Purging

There is no archiving and purging in this package.

5.0 External Relations

5.1 External Calls

This package calls the following documented entry points:

```
% INDEX of patch 7 build:
Routine          is Invoked by:
DD^%DT           BDWHRDI2,BDWRDRI2,BDWRDRI3,BDWSR,BDWSRP,BDWSRP5
^%DTC            BDW1VBLI,BDWCVAR,BDWDDR,BDWDWPX1,BDWRDR21,BDWUTIL
C^%DTC          BDWDDR,BDWHRDI2,BDWRDRI2,BDWRDRI3
COMMA^%DTC      BDWCOVD,BDWCovDR,BDWCovLG,BDWDDR,BDWHDDR,BDWRDR,BDWRDR
NOW^%DTC        BDW1VBL,BDWBHL,BDWCvHL,BDWCovD,BDWCovDR,BDWDDR,BDWBHL
                BDWHDDR,BDWRDR,BDWHRED0,BDWRDR,BDWREDO
HOME^%ZIS       BDW1BLR,BDW1VBLI,BDWA,BDWCVAR,BDWDDR,BDWHDDR,BDWRDRI
                BDWRDRI
^%ZISC          BDWBHL,BDWCvHL,BDWBHL
$$OPEN^%ZISH    BDWBHL,BDWCvHL,BDWBHL
^%ZTLOAD        BDW1VBLI,BDWBHL,BDWCvHL,BDWCovD1,BDWCovDR,BDWDDR,BDWBHL
                BDWHDDR,BDWRDRI,BDWRDRI
QNTCVT^AGTX1    BDWDWPX
$$GETMCR^AGUTL  BDWIN1
$$GETRRE^AGUTL  BDWIN1
$$HASMBI^AGUTL  BDWIN1
$$START1^APCLDF BDWUTIL1
$$CLINIC^APCLV  BDWUTIL
$$LOCENC^APCLV  BDWCov1
$$PRIMPOV^APCLV BDWUTIL1
$$PRIMPROV^APCLV BDWUTIL
$$SECPov^APCLV  BDWUTIL1
$$SECPROV^APCLV BDWUTIL
$$CPT^AUPNCPT   BDWDDR2,BDWUTIL
^AUPNPAT        BDW1VBL2,BDWCVAR,BDWRDR2,BDWRDR21
$$HRN^AUPNPAT   BDWEPRN
$$MCD^AUPNPAT   BDWUTIL1
$$MCR^AUPNPAT   BDWUTIL1
$$PI^AUPNPAT    BDWUTIL1
KILL^AUPNPAT    BDW1VBL,BDWCVAR,BDWDDR,BDWRDR,BDWREDO
$$UID^AUPNVSIT  BDW1VBL,BDWDDR,BDWRDR
$$LASTTXN^BDGF1 BDWCovAD
NEWAUTH^BDGM202A BDWCovAD
DRIVER^BDW1VBL  BDW1VBLZ
RESET^BDW1VBL   BDW1VBL2
^BDW1VBL2       BDW1VBL
VA^BDW1VBL2     BDWCVAR,BDWDDR
^BDW1VBLE       BDW1VBL,BDW1VBL2
^BDW1VBLI       BDW1VBL
$$WRITE^BDW1VBLI BDW1VBL
BASICS^BDW1VBLI BDW1VBLZ
CHKSITE^BDW1VBLI BDW1VBLZ
GIS^BDW1VBLI    BDWDDR,BDWRDR,BDWREDO
QUEUE^BDW1VBLI  BDW1VBLZ
^BDWA1          BDWA
$$UID^BDWAID    BDWA1,BDWALPMR,BDWDWPX
$$UIDV^BDWAID   BDW1VBL,BDW1VBL2,BDWDDR,BDWRDR
$$FLG^BDWBHL    BDWRDR
$$DW1ALPMR^BDWBHL1 BDWRDR2
AUTOSEND^BDWBHL1 BDWBHL
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BULL^BDWBHL1	BDWBHL
CPT^BDWBHL1	BDWBHL
HF^BDWBHL1	BDWBHL
IFC^BDWBHL1	BDWBHL
LAB^BDWBHL1	BDWBHL
MSR^BDWBHL1	BDWBHL
PED^BDWBHL1	BDWBHL
RESETFLG^BDWBHL1	BDWBHL
SKT^BDWBHL1	BDWBHL
XAM^BDWBHL1	BDWBHL
ZIM^BDWBHL1	BDWBHL
\$\$Z19^BDWCOHL	BDWCOVD
AUTOSEND^BDWCOHL	BDWCOHL
HFS^BDWCOHL	BDWCOVD
SETHL7^BDWCOHL	BDWCOVD
\$\$COVPOS^BDWCOV1	BDWCOVAD
LABTESTS^BDWCOV1	BDWCOV1, BDWCOVD
AUTHBEDS^BDWCOVAD	BDWCOVD
CHKBED^BDWCOVAD	BDWCOVD
DISC^BDWCOVAD	BDWCOVD
SET^BDWCOVAD	BDWCOVD
DRIVER^BDWCOVD	BDWCOVDR, BDWCOVRD
^BDWCOVD1	BDWCOVD, BDWCOVRD
CHKSITE^BDWCOVD1	BDWCOVDR
CREATETX^BDWCOVT	BDWCOV1
\$\$FULLEP^BDWDWPX	BDW1BLR
\$\$WRITE^BDWDWPX1	BDWDWPX
MAIN^BDWHBHL	BDWHEVNT
AUTOSEND^BDWHBHL1	BDWHBHL
BULL^BDWHBHL1	BDWHBHL
\$\$DW1HHDR^BDWHEVNT	BDWHRDR
\$\$DW1HTRLR^BDWHEVNT	BDWHDDR, BDWHRDR, BDWHREDO
\$\$O13^BDWHEVNT	BDWHRDR
^BDWHRDI2	BDWHRDRI
ABORT^BDWHRDR	BDWHDDR
LOG^BDWHRDR	BDWHDDR
PROCESS^BDWHRDR	BDWHDDR, BDWHREDO
RUNTIME^BDWHRDR	BDWHDDR, BDWHRDR, BDWHREDO
^BDWHRDRI	BDWHRDR, BDWHREDO
CHKSITE^BDWHRDRI	BDWHDDR
QUEUE^BDWHRDRI	BDWHREDO
\$\$AFFIL^BDWHUTL	BDWHBHL, BDWHFLDS
\$\$DAYS^BDWHUTL	BDWHBHL, BDWHFLDS
\$\$DEA^BDWHUTL	BDWHBHL, BDWHFLDS
\$\$DEAVA^BDWHUTL	BDWHBHL, BDWHFLDS
\$\$DEMO^BDWHUTL	BDWCOV1, BDWCOVAD, BDWHRDR
\$\$DETOXMID^BDWHUTL	BDWHBHL, BDWHFLDS
\$\$NDC^BDWHUTL	BDWHRDR
\$\$NPI^BDWHUTL	BDWHBHL, BDWHFLDS
\$\$RXDETOXN^BDWHUTL	BDWHBHL, BDWHFLDS
\$\$VADC^BDWHUTL	BDWHRDR
\$\$VANUM^BDWHUTL	BDWHBHL, BDWHFLDS
RST4AF^BDWRDR	BDWBHL
RUNTIME^BDWRDR	BDWDDR, BDWREDO
^BDWRDR2	BDWDDR, BDWRDR, BDWREDO
ALPMR^BDWRDR2	BDWRDR, BDWREDO
^BDWRDRI	BDWRDR, BDWREDO
BASICS^BDWRDRI	BDWDDR
CHKSITE^BDWRDRI	BDWDDR, BDWPURG
QUEUE^BDWRDRI	BDWREDO
^BDWRDRI2	BDWRDRI
CHKOLD^BDWRDRI2	BDWCVAR, BDWRED1

CHKVISIT^BDWRDRI2	BDWCVAR
CONFIRM^BDWRDRI2	BDWCVAR
CURRUN^BDWRDRI2	BDWCVAR
ERRBULL^BDWRDRI2	BDWHRDR, BDWRDR
GETLOG^BDWRDRI2	BDWCVAR
ERRBULL^BDWRDRI3	BDWHREDO, BDWREDO
INIT^BDWRED1	BDWREDO
^BDWRERR	BDWDDR, BDWRDR, BDWRDR2, BDWRDR21, BDWREDO
V^BDWSR1	BDWSR
CLINIC^BDWSR2	BDWSR1
LOC^BDWSR2	BDWSR1
PROV^BDWSR2	BDWSR1
SC^BDWSR2	BDWSR1
TYPE^BDWSR2	BDWSR1
VD^BDWSR2	BDWSR1
^BDWSRP	BDWSR
HEAD^BDWSRP	BDWSRP5
^BDWSRP5	BDWSRP
\$\$LABDONE^BDWUTIL	BDWUTIL1
\$\$LABRES^BDWUTIL	BDWUTIL1
CPT^BDWUTIL	BDW1VBL2, BDWBHL1
DENT^BDWUTIL	BDW1VBL2, BDWBHL
EXAM^BDWUTIL	BDWBHL1
LAB^BDWUTIL	BDWBHL1
MEAS^BDWUTIL	BDWBHL1
PED^BDWUTIL	BDWBHL1
POVS^BDWUTIL	BDW1VBL2, BDWBHL
\$\$CHART^BDWUTIL1	BDWEPRN
\$\$CHARTREG^BDWUTIL1	BDWUTIL1
\$\$ORF^BDWUTIL1	BDWRDR, BDWREDO
IFC^BDWUTIL1	BDWBHL1
IMM^BDWUTIL1	BDWBHL1
MC^BDWUTIL1	BDWBHL1
MED^BDWUTIL1	BDWBHL
PROC^BDWUTIL1	BDW1VBL2, BDWBHL
PROV^BDWUTIL1	BDW1VBL2, BDWBHL
ST^BDWUTIL1	BDWBHL1
IMC^BDWUTIL2	BDWALPMR
PRB^BDWUTIL2	BDWALPMR
REF^BDWUTIL2	BDWALPMR
WH^BDWUTIL2	BDWALPMR
\$\$CHK^BHLBCK	BDW1BLR, BDW1VBLI
\$\$DW1A08^BHLEVENT	BDW1VBL2, BDWRDR2
\$\$DW1HDR^BHLEVENT	BDW1BLR, BDW1VBL, BDWDDR, BDWRDR, BDWREDO
\$\$DW1MRG^BHLEVENT	BDWRDR, BDWREDO
\$\$DW1REG^BHLEVENT	BDW1BLR, BDWRDR, BDWREDO
\$\$DW1TRLR^BHLEVENT	BDW1BLR, BDW1VBL, BDW1VBLR, BDWDDR, BDWRDR, BDWREDO
\$\$MSG^BHLEVENT	BDWBHL1
EOJ^BHLEVENT	BDWBHL1
COMPILE^BHLU	BDW10P3, BDW10P4, BDW10P40, BDW10P5, BDW10P6
MPORT^BHLU	BDW10P4, BDW10P6, BDW10P7
EN^DDIOL	BDW10P6, BDWCOVT, BDWHDLOG
^DDS	BDW10P6
^DIC	BDW10P1, BDW10P3, BDW10P4, BDW10P40, BDW10P5, BDW10P6, BDW10P7 BDW1VBL1, BDW1VBLR, BDW1VBLZ, BDWCOVD1, BDWCOVDR, BDWCOVLG BDWCOVRD, BDWCOVRL, BDWCOVT, BDWDDR, BDWDLOG, BDWEPRN, BDWHDDR BDWHDLOG, BDWHRDI2, BDWHREDO, BDWHRSET, BDWPRADD, BDWPRE BDWRDRI2, BDWRED1 BDWRSET, BDWSR
IX^DIC	BDW10P1, BDW10P3, BDW10P4, BDW10P40, BDW10P5, BDW10P6, BDW10P7 BDWPRE
FILE^DICN	BDW1BLR, BDW1VBLI, BDWA, BDWCOVD, BDWCOVT, BDWHDLOG, BDWPRADD

DT^DICRW	BDWPRE
^DIE	BDW1VBLI, BDWCVAR, BDWDDR, BDWDWXP1
	BDW10P6, BDW1BLR, BDW1VBL, BDW1VBLI, BDW1VBLR, BDWBHL, BDWCOHL
	BDWCOVD, BDWCOVD1, BDWCOVDR, BDWCOVRD, BDWCOVT, BDWDDR
	BDWHBHL, BDWHDDR, BDWHDLOG, BDWHRDR, BDWHRDRI, BDWHREDO
	BDWPRADD, BDWPRE, BDWRDR, BDWRDR21, BDWRDRI, BDWREDO, BDWRXP
UPDATE^DIE	BDW10P4, BDW10P5, BDW10P6, BDWHRDR, BDWHREDO
WP^DIE	BDW10P4
^DIK	BDW10P4, BDW1BLR, BDW1VBLI, BDW1VBLR, BDWCOVD1, BDWCOVDR
	BDWCOVRL, BDWCOVT, BDWDDR, BDWHDDR, BDWHRDRI, BDWHRSET
	BDWPRADD, BDWPRE, BDWRDR, BDWRDRI, BDWRSET
IX^DIK	BDWCOVD, BDWCOVT, BDWHDDR, BDWHRDR, BDWHREDO
IX1^DIK	BDW1VBL, BDWDDR, BDWPRE, BDWRDR, BDWREDO
IXALL^DIK	BDW10P6
\$\$GET1^DIQ	BDWAID, BDWBHL, BDWCOHL, BDWCOVAD, BDWDWXP, BDWHBHL, BDWHDLOG
	BDWHEVNT, BDWHFLDS, BDWIN1, BDWUTIL, BDWUTIL1, BDWUTIL2
EN^DIQ	BDW1VBLR, BDWCOVRL, BDWHRSET, BDWRSET
EN^DIQ1	BDWSR2, BDWSRP
^DIR	BDW10P6, BDW1BLR, BDW1VBL, BDW1VBLI, BDW1VBLR, BDW1VBLR
	BDW1VBLZ, BDWCOVD, BDWCOVD1, BDWCOVDR, BDWCOVLG, BDWCOVRD
	BDWCOVRL, BDWCOVT, BDWCVAR, BDWDDR, BDWDLOG, BDWDWXP, BDWEPRN
	BDWHDDR, BDWHDLOG, BDWHRDI2, BDWHRDR, BDWHRDRI, BDWHREDO
	BDWHRSET, BDWPURG, BDWRDR
	BDWRDRI, BDWRDRI2, BDWRED1, BDWREDO, BDWRSET, BDWRXP, BDWSRP
EN^DIU2	BDWPRE
\$\$ICDDX^ICDCODE	BDWDWXP, BDWUTIL2
\$\$ICDDX^ICDEX	BDWUTIL, BDWUTIL1, BDWUTIL2
\$\$ICDOP^ICDEX	BDWUTIL1
^INHf	BDWBHL1, BDWCOHL, BDWHEVNT
\$\$DATE^INHUT	BDW1VBL2, BDW1VBLI, BDWBHL, BDWBHL1, BDWCVAR, BDWDDR, BDWDWXP
	BDWDWXP1, BDWHBHL, BDWIN1
\$\$CHKF^INMPORT	BDW10P5
\$\$CHKS^INMPORT	BDW10P5
\$\$SFADD^INMPORT	BDW10P5
EN^VALM	BDWCOVT
TERM^VALM0	BDWCOVT
CLEAR^VALM1	BDWCOVT
FULL^VALM1	BDW1VBL, BDWCOVLG, BDWCOVT, BDWDLOG, BDWHDLOG
^XBDBQUE	BDW1VBL, BDWDLOG, BDWEPRN, BDWSR
\$\$VAL^XBIDIQ1	BDW10P6, BDW1VBL, BDWBHL, BDWCOHL, BDWCOV1, BDWCOVD1
	BDWCOVLG, BDWDDR, BDWDLOG, BDWEPRN, BDWHBHL, BDWHDLOG
	BDWHRDI2, BDWHRDRI, BDWHUTL, BDWIN1, BDWRDR, BDWSR2, BDWSRP5
	BDWUTIL, BDWUTIL1
\$\$VALI^XBIDIQ1	BDWBHL, BDWCOV1, BDWHBHL, BDWHRDR, BDWHUTL, BDWUTIL, BDWUTIL1
\$\$DIR^XBIDIR	BDWA
^XBFMK	BDW1BLR, BDW1VBL, BDW1VBLI, BDWA, BDWCOVD, BDWCOVD1, BDWCOVDR
	BDWCOVRD, BDWCOVT, BDWDDR, BDWEPRN, BDWHDDR, BDWHRDI2, BDWHRDR
	BDWHREDO, BDWPRADD, BDWPRE, BDWRDR, BDWRDRI2, BDWREDO, BDWRXP
\$\$EXTSET^XBFUNC	BDWRDR2
^XBGSAVE	BDW1VBLI, BDWA, BDWCVAR, BDWDDR, BDWDWXP1
VIEWR^XBLM	BDW1VBL, BDWCOVLG, BDWDLOG, BDWHDLOG
EN^XBVK	BDW1BLR, BDW1VBL, BDW1VBLR, BDW1VBLZ, BDWA, BDWCOVD, BDWCOVDR
	BDWCOVRD, BDWCOVT, BDWCVAR, BDWDDR, BDWEPRN, BDWHDDR, BDWHRDR
	BDWHREDO, BDWRDR, BDWREDO, BDWRXP, BDWSR
\$\$FMADD^XLFTD	BDW1VBLI, BDW1VBLR, BDWBHL, BDWCOHL, BDWCOVD, BDWCOVD1
	BDWCOVDR, BDWHBHL, BDWHDDR, BDWHRDI2, BDWHRDR, BDWRDR
	BDWRDRI2, BDWREDO, BDWRXP, BDWSR
\$\$FMTE^XLFTD	BDW1VBLI, BDW1VBL, BDWA, BDWCOVD1, BDWCOVDR, BDWCOVRD, BDWDDR
	BDWDLOG, BDWEPRN, BDWHDDR, BDWHDLOG, BDWHRDI2, BDWHREDO
	BDWRDR, BDWRXP
\$\$FMTHL7^XLFTD	BDWCOHL, BDWHBHL, BDWHFLDS, BDWUTIL2
\$\$NOW^XLFTD	BDW1BLR, BDW1VBL, BDW1VBL2, BDW1VBLI, BDWA, BDWBHL, BDWCOHL

	BDWCOVD1, BDWCOVDR, BDWCVAR, BDWDDR, BDWDWPX, BDWDWPX1
	BDWHBHL, BDWHRDR, BDWHREDO
\$\$\$CJ^XLFSTR	BDW10P1, BDW10P3, BDW10P4, BDW10P40, BDW10P5, BDW10P6, BDW10P7
	BDWPRE
\$\$\$REPEAT^XLFSTR	BDWCOVT
\$\$\$UP^XLFSTR	BDWCOV1, BDWCOVD1, BDWCOVDR, BDWCOVRD, BDWHDDR, BDWHDLOG
	BDWHRDI2, BDWHREDO
^XMB	BDWHRDI2, BDWRDRI2, BDWRDRI3
^XMD	BDWBHL1, BDWHBHL1
\$\$\$ADD^XPDMENU	BDW10P1, BDW10P6, BDW10P7, BDW1VBLZ
RENAME^XPDMENU	BDW10P6
BMES^XPDUTL	BDWPRE
MES^XPDUTL	BDW10P1, BDW10P3, BDW10P4, BDW10P40, BDW10P5, BDW10P6, BDW10P7
	BDWPRE DISP^XQORM1 BDWCOVT \$\$\$NOJOURN^ZIBGCHAR
BDW1VBL, BDWA	\$\$\$SENDTO1^ZISHMSMU BDWBHL1, BDWCOHL, BDWHBHL1
%INDEX of patch 12 build	
Routine	is Invoked by:
^%DTC	BDW1VBLI, BDWCVAR, BDWDDR, BDWDWPX1, BDWUTIL
C^%DTC	BDWDDR
COMMA^%DTC	BDWDDR
NOW^%DTC	BDWBHL, BDWCBHL, BDWCOHL, BDWDDR, BDWHBHL
HOME^%ZIS	BDW1VBLI, BDWCVAR, BDWDDR
^%ZISC	BDWBHL, BDWCBHL, BDWCOHL, BDWHBHL
\$\$\$OPEN^%ZISH	BDWBHL, BDWCBHL, BDWCOHL, BDWHBHL
^%ZTLOAD	BDW1VBLI, BDWBHL, BDWCBHL, BDWCOHL, BDWDDR, BDWHBHL
\$\$\$CLINIC^APCLV	BDWUTIL
\$\$\$PRIMPROV^APCLV	BDWUTIL
\$\$\$SECPROV^APCLV	BDWUTIL
\$\$\$ICD^ATXAPI	BDW10P12, BDWUTIL
BULL^ATXSTX2	BDWZ1A
KILL^ATXSTX2	BDWZ1A
TAX^ATXSTX2	BDWZ1A
\$\$\$CPT^AUPNCPT	BDWUTIL
^AUPNPAT	BDWCVAR, BDWRDR2
\$\$\$SSN^AUPNPAT	BDWRDR2
KILL^AUPNPAT	BDWCVAR, BDWDDR
\$\$\$UID^AUPNVSIT	BDWDDR
VA^BDW1VBL2	BDWCVAR, BDWDDR
GIS^BDW1VBLI	BDWDDR
\$\$\$UID^BDWAID	BDWALPMR
\$\$\$UIDV^BDWAID	BDWDDR
PARAMS^BDWBCOMS	BDW10P12
LPINTHU^BDWBHL	BDWHBHL
\$\$\$DW1ALPMR^BDWBHL1	BDWRDR2
\$\$\$SEG^BDWBHL1	BDWBHL
BULL^BDWBHL1	BDWBHL
CPT^BDWBHL1	BDWBHL
HF^BDWBHL1	BDWBHL
*****	Cross Reference of all Routines ***** Nov 25, 2025@16:03:32 page 30
Routine	is Invoked by:
IFC^BDWBHL1	BDWBHL
IMP^BDWBHL1	BDWBHL
LAB^BDWBHL1	BDWBHL
MSR^BDWBHL1	BDWBHL
NK1^BDWBHL1	BDWBHL
PED^BDWBHL1	BDWBHL
RESETFLG^BDWBHL1	BDWBHL

SKT^BDWBHL1	BDWBHL
WH^BDWBHL1	BDWBHL
XAM^BDWBHL1	BDWBHL
ZIM^BDWBHL1	BDWBHL
ZP2^BDWBHL1	BDWBHL
ZPT^BDWBHL1	BDWBHL
ZVP^BDWBHL1	BDWBHL
BULL^BDWHBHL1	BDWHBHL
\$\$OMOID^BDWHRDR	BDWHBHL
\$\$AFFIL^BDWHUTL	BDWHBHL
\$\$ASFPF^BDWHUTL	BDWHBHL
\$\$DAYS^BDWHUTL	BDWHBHL
\$\$DEA^BDWHUTL	BDWHBHL
\$\$DEAVA^BDWHUTL	BDWHBHL
\$\$DETOXMID^BDWHUTL	BDWHBHL
\$\$DS^BDWHUTL	BDWHBHL
\$\$NPI^BDWHUTL	BDWBHL1, BDWHBHL
\$\$PC^BDWHUTL	BDWHBHL
\$\$PCC^BDWHUTL	BDWHBHL
\$\$RXDETOXN^BDWHUTL	BDWHBHL
\$\$RXNORM^BDWHUTL	BDWHBHL
\$\$VANUM^BDWHUTL	BDWHBHL
RST4AF^BDWRDR	BDWBHL
RUNTIME^BDWRDR	BDWDDR
^BDWRDR2	BDWDDR
BASICS^BDWRDRI	BDWDDR
CHKSITE^BDWRDRI	BDWDDR
CHKOLD^BDWRDRI2	BDWCVAR
CHKVISIT^BDWRDRI2	BDWCVAR
CONFIRM^BDWRDRI2	BDWCVAR
CURRUN^BDWRDRI2	BDWCVAR
GETLOG^BDWRDRI2	BDWCVAR
^BDWRERR	BDWDDR, BDWRDR2
\$\$CLS^BDWUTIL	BDWUTIL2
CPT^BDWUTIL	BDWBHL1
DENT^BDWUTIL	BDWBHL
EXAM^BDWUTIL	BDWBHL1
IMP^BDWUTIL	BDWBHL1
LAB^BDWUTIL	BDWBHL1
MEAS^BDWUTIL	BDWBHL1
PED^BDWUTIL	BDWBHL1

***** Cross Reference of all Routines ***** Nov 25, 2025@16:03:32 page 31

Routine is Invoked by:

POVS^BDWUTIL	BDWBHL
IFC^BDWUTIL1	BDWBHL1
IMM^BDWUTIL1	BDWBHL1
MC^BDWUTIL1	BDWBHL1
MED^BDWUTIL1	BDWBHL
PROC^BDWUTIL1	BDWBHL
PROV^BDWUTIL1	BDWBHL1
ST^BDWUTIL1	BDWBHL1
\$\$ENGPROF^BDWUTIL2	BDWBHL1
\$\$HLNAME^BDWUTIL2	BDWHBHL
\$\$OTHLANG^BDWUTIL2	BDWBHL1
\$\$PREFLANG^BDWUTIL2	BDWBHL1
AL^BDWUTIL2	BDWALPMR
IMC^BDWUTIL2	BDWALPMR
PRB^BDWUTIL2	BDWALPMR
REF^BDWUTIL2	BDWALPMR
WH^BDWUTIL2	BDWALPMR

ZCN^BDWUTIL2	BDWALPMR
ZPT^BDWUTIL2	BDWBHL1
^BDWZ1	BDW10P12
^BDWZ1A	BDWZ1
^BDWZ1A2	BDWZ1A
\$\$CHK^BHLBCK	BDW1VBLL
\$\$DW1A08^BHLEVENT	BDWRDR2
\$\$DW1HDR^BHLEVENT	BDWDDR
\$\$DW1TRLR^BHLEVENT	BDWDDR
\$\$MSG^BHLEVENT	BDWBHL1
EOJ^BHLEVENT	BDWBHL1
COMPILE^BHLU	BDW10P12
^DIC	BDW10P12, BDWDDR
IX^DIC	BDW10P12
FILE^DICN	BDW1VBLL
DT^DICRW	BDW1VBLL, BDWCVAR, BDWDDR, BDWDWXP1
^DIE	BDW1VBLL, BDWBHL, BDWCBHL, BDWCOHL, BDWDDR, BDWHBHL
UPDATE^DIE	BDW10P12
^DIK	BDW1VBLL, BDWDDR
IX1^DIK	BDWDDR
\$\$GET1^DIQ	BDWBHL, BDWCBHL, BDWCOHL, BDWHBHL, BDWUTIL, BDWUTIL2
^DIR	BDW1VBLL, BDWBCOMS, BDWCVAR, BDWDDR
\$\$HLNAME^HLFNC	BDWBHL1, BDWUTIL2
\$\$ICDDX^ICDCODE	BDWUTIL2
\$\$ICDDX^ICDEX	BDWHBHL, BDWUTIL, BDWUTIL2
\$\$CPT^ICPTCOD	BDW10P12, BDWUTIL
^INHf	BDWBHL1, BDWCBHL, BDWCOHL
\$\$DATE^INHUT	BDW1VBLL, BDWBHL, BDWBHL1, BDWCBHL, BDWCVAR, BDWDDR, BDWDWXP1
\$\$CHKf^INMPORt	BDWHBHL
\$\$CHKS^INMPORt	BDW10P12
BDW10P12	BDW10P12
***** Cross Reference of all Routines ***** Nov 25, 2025@16:03:32 page 32	
Routine	is Invoked by:
\$\$SFADD^INMPORt	BDW10P12
\$\$VAL^XBIDQ1	BDWBHL, BDWBHL1, BDWCBHL, BDWCOHL, BDWDDR, BDWHBHL, BDWUTIL
	BDWUTIL2
\$\$VALI^XBIDQ1	BDW10P12, BDWBHL, BDWBHL1, BDWCBHL, BDWHBHL, BDWUTIL, BDWUTIL2
^XBfMK	BDW1VBLL, BDWDDR
\$\$EXTSET^XBfUNC	BDWHBHL, BDWRDR2
^XBGSAVE	BDW1VBLL, BDWCVAR, BDWDDR, BDWDWXP1
EN^XBVK	BDWCVAR, BDWDDR
\$\$FMADD^XLFDt	BDW1VBLL, BDWBHL, BDWCBHL, BDWCOHL, BDWHBHL, BDWRDR2, BDWUTIL2
\$\$FMTE^XLFDt	BDW1VBLL, BDWDDR
\$\$FMTHL7^XLFDt	BDWCBHL, BDWCOHL, BDWHBHL, BDWUTIL2
\$\$NOW^XLFDt	BDW1VBLL, BDWBHL, BDWCBHL, BDWCOHL, BDWCVAR, BDWDDR, BDWDWXP1
	BDWHBHL
\$\$CJ^XLfSTR	BDW10P12
^XMD	BDWBHL1, BDWCBHL, BDWHBHL1
MES^XPDUTL	BDW10P12
\$\$PROD^XUPROD	BDWBHL, BDWCBHL, BDWCOHL, BDWDDR, BDWHBHL
\$\$SENDTO1^ZISHMSMU	BDWBHL1, BDWCBHL, BDWCOHL, BDWHBHL1
***** END *****	
--- END ---	

Figure 5-1: BDW documented entry points

5.2 Callable Routines

There are no published entry points in this package.

5.3 Exported Options

Table 5-1: Exported option names and text

Option Name	Option Text
BDW BACKLOAD LOG DISP	Display Encounter Backload Log Entry
BDW BACKLOAD MENU	Backload Data Menu
BDW BACKLOAD RESET	Reset DW Encounter Backload Log
BDW BACKLOAD VISITS	Generate Encounter Records for Backloading the NDW
BDW BL VISITS RERUN	Re-run a backload run of visits
BDW CREATE PAT REG AUDIT	Create Patient Reg Update Audit File
BDW DATE RANGE EXPORT	Export to Data Warehouse for a Date Range
BDW DISPLAY LOG	Display Log Entry
BDW EDIT DELAY VALUE	Edit the Delay Value
BDW GENERATE TXS	Generate Data Warehouse Export Records
BDW INT MARK VISIT FOR EXPORT	Search Visits and Mark Unexported Visits
BDW LIST ERRORS	List PCC Encounters Not Exported
BDW MARK VISIT FOR EXPORT	Search Visit File and Mark Unexported Visits
BDW PURGE VISIT PTS	Purge Log Entries
BDW QUEUE GDW	Queueable Data Warehouse Export (GDW)
BDW REDO	Re-Run a Previously Run Data Warehouse Export
BDW REFLAG PATIENT FOR EXPORT	Re-flag Patient for Export as an Add to NDW
BDW REG BL LOG	Display Full Registration Backload Log Entry
BDW RESET LOG	Reset Failed Log Entry
BDW SUMMARY REPORT	Data Warehouse Export Summary Report
BDW TAXONOMY SETUP	Data Warehouse Export Taxonomy Setup
BDW VISIT AUDIT REPORT	Create Encounter Audit Report
BDWA DW EXPORT	Data Warehouse Full Registration Export
BDWCOV COVID DATE RANGE EXPORT	Date Range Export of COVID-19 Transactions
BDWCOV COVID-19 EXPORT	Generate COVID-19 Export Transactions
BDWCOV COVID-19 TAXONOMY UPD	Update/Review COVID-19 Lab Test Taxonomy
BDWCOV DISPLAY COVID-19 LOG	Display COVID-19 Export Log Entry
BDWCOV QUEUE COVID-19 EXPORT	Queueable COVID-19 Data Warehouse Export
BDWCOV RESET COVID-19 LOG	Reset COVID-19 Export Log
BDWCOVMENU	COVID-19 Export Menu

Option Name	Option Text
BDWH DATE RANGE EXPORT	Date Range Export of Prescription Transactions
BDWH DISP PRESCRIPTION LOG	Display Prescription Export Log Entry
BDWH PRESCRIPTION GENERATE TXS	Generate Prescription Export Transactions
BDWH PRESRIPTION PARM EDIT	Edit Prescription Export Parameter
BDWH QUEUE PRESCRIPTION EXPORT	Queueable Prescription Data Warehouse Export
BDWH REDO	Re-Run Previously Run Prescription Export
BDWH RESET PRESCRIPTION LOG	Reset Prescription Export Log
BDWHMENU	Prescription Drug Data Warehouse Export Menu
BDWMENU	Data Warehouse Export Menu

6.0 Internal Relations

All users should be given the access to the appropriate options and keys to them, as needed. All of the options in this system stand alone.

7.0 How to Generate Online Documentation

The file number range for this package is 90212–90215. The namespace is BDW. All templates, routines, screen forms, etc. begin with BDW.

This section describes some of the methods by which users can generate IHS Data Warehouse Export system technical documentation. Online technical documentation pertaining to the IHS Data Warehouse Export software, in addition to that which is located in the help prompts and on the help screens throughout the IHS Data Warehouse Export System package, can be generated through the use of several Kernel options. These include, but are not limited to, the following:

- %INDEX
- Menu Management
- Inquire Option
- Print Option File
- VA FileMan
- Data Dictionary Utilities
- List File Attributes

Entering question marks at the “Select...Option” prompts can also provide users with valuable technical information. For example, a single question mark (?) lists all options that can be accessed from the current option. Typing two question marks (??) lists all options accessible from the current one, showing the formal name and lock for each. Three question marks (???) displays a brief description for each option in a menu, whereas an option name preceded by a question mark (?OPTION) shows extended help, if available, for that option.

For a more exhaustive option listing and further information about other utilities that supply online technical information, please consult the *DHCP Kernel Reference manual*.

7.1 %INDEX

This option analyzes the structure of a routine to determine in part if the routine adheres to RPMS Programming Standards. The %INDEX output can include the following components:

- Compiled list of errors and warnings
- Routine listing
- Local variables
- Global variables

- Naked globals
- Label references
- External references

By running %INDEX for a specified set of routines, you are afforded the opportunity to discover any deviations from RPMS Programming Standards that exist in the selected routines and to see how routines interact with one another (i.e., which routines call or are called by other routines).

To run %INDEX for the IHS Data Warehouse Export System package, specify the BDW namespace at the “Routine(s)?>” prompt.

7.2 Inquire Option

This menu management option provides the following information about a specified option:

- Option name
- Menu text
- Option description
- Type of option
- Lock (if any)

In addition, all items on the menu are listed for each menu option. To secure information about IHS Data Warehouse Export System options, you must specify the BDW namespace.

7.3 Print Option File

This utility generates a listing of options from the Option file (#19). You can choose to print all of the entries in this file or you can specify a single option or range of options. For a list of IHS Data Warehouse Export System options, please refer to Section 5.3.

7.4 List File Attributes

This VA FileMan option allows you to generate documentation pertaining to files and file structure. Using the Standard format of this option yields the following data dictionary information for a specified file:

- File name and description
- Identifiers
- Cross-references

- Files pointed to by the file specified
- Files that point to the file specified input, print, and sort templates

In addition, the following applicable data is supplied for each field in the file:

- Field name, number, title, and description
- Global location
- Help prompt
- Cross-references
- Input transform
- Date last edited
- Notes

Using the Global Map format of this option generates an output that lists the following information:

- All cross-references for the file selected
- Global location of each field in the file
- Input, print, and sort templates

8.0 SAC Exemptions

This program uses two standard globals for export of data to the Data Warehouse. The global are called ^BDWDATA and ^BDWHDATA (and they are killed at the root level).

The kill of these unsubscripted globals has been approved by the Standards and Conventions committee.

Glossary

Archiving

The storing of historical or little-used data off-line (often on tape).

Banner

A line of text with a user's name and domain.

Browser

An interactive application that displays ASCII text on a terminal that supports a scroll region. The text can be in the form of a word-processing field or sequential local or global array. The user is allowed to navigate freely within the document.

Callable Entry Points

Places in a routine that can be called from an application program.

Caret (^)

A circumflex, also known as a "caret," "hat," or "up-hat," is used as a piece delimiter in a global. The caret is denoted as "^" and is typed by pressing Shift-6 on the keyboard.

Cross-reference

An indexing method whereby files can include pre-sorted lists of entries as part of the stored database. Cross-references (x-refs) facilitate look-up and reporting.

Entry Point

Entry point within a routine that is referenced by a "DO" or "GOTO" command from a routine internal to a package.

File

A set of related records or entries treated as a single unit.

FileMan

The database management system for RPMS.

Global

In MUMPS, global refers to a variable stored on disk (global variable) or the array to which the global variable may belong (global array).

INDEX (%INDEX)

A Kernel utility used to verify routines and other MUMPS code associated with a package. Checking is done according to current ANSI MUMPS standards and RPMS programming standards. This tool can be invoked through an option or from direct mode (>D ^%INDEX).

Kernel

The set of MUMPS software utilities that function as an intermediary between the host operating system and application packages, such as Laboratory and Pharmacy. The Kernel provides a standard and consistent user and programmer interface between application packages and the underlying MUMPS implementation. These utilities provide the foundation for RPMS.

Menu

A list of choices for computing activity. A menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection. When displayed, menu- type options are preceded by the word “Select” and followed by the word “option” as in **Select Menu Management** option: (the menu’s select prompt).

Namespace

A unique set of two to four alpha characters that are assigned by the database administrator to a software application.

Option

An entry in the Option file. As an item on a menu, an option provides an opportunity for users to select it, thereby invoking the associated computing activity. Options may also be scheduled to run in the background, non-interactively, by TaskMan.

Patient Care Component

The central repository for data in the Resource and Patient Management System.

Queuing

Requesting that a job be processed at a later time rather than within the current session.

Routine

A program or sequence of instructions called by a program that may have some general or frequent use. MUMPS routines are groups of program lines that are saved, loaded, and called as a single unit via a specific name.

Utility

A callable routine line tag or function. A universal routine usable by anyone.

Variable

A character or group of characters that refers to a value. MUMPS recognizes three types of variables: local variables, global variables, and special variables. Local variables exist in a partition of the main memory and disappear at sign-off. A global variable is stored on disk, potentially available to any user. Global variables usually exist as parts of global arrays.

Acronym List

Acronym	Meaning
COVID-19	Coronavirus Disease 2019
HL7	Health Level Seven
IHS	Indian Health Service
NDW	National Data Warehouse
NPIRS	National Patient Information Reporting System
RPMS	Resource and Patient Management System
SAC	Standards and Conventions

Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

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